XRSYM

EXPANDED RELATIVE SYMBOL

	1		2		3		4
XRSYM	/	**4-7ANS**	/	**2-9ANS**	/	**3N**	/	2N
		BEARING		**RANGE**		**SYMBOL**		**MODIFIER**

5		6		7		8		9
/	4-7ANS	/	1-21ANBS	/	1-2N	/	1N	/	1A
	ORIENTATION		**LABEL**		**SYMBOL SIZE**		**LINE TYPE**		**LINE COLOR**

NOTE: SHADED FIELDS ARE MANDATORY

The XRSYM set is used to place a symbol at a position relative to the track described in the preceding ORGIN set. These symbols are defined in Table 5-8. The XRSYM set allows reporting of data with enhanced precision and flexibility in unit of measure.

FIELD NO.	NAME	USE	EXPLANATION (ALLOWED FORMATS)
1	Bearing	M	Enter the bearing (000-360 or 000.0-360.0) from the origin to the symbol location in degrees true (T) or relative (R). An optional checksum (0-9) may be used, e.g., 035T, 035R8, 035.5T, 035.5T3. A relative bearing indicates that the overlay is slaved to the track's current heading, causing the overlay to reorient relative to the origin with any heading change. (4-7ANS)

NOTE: THIS SET CONTINUED ON THE FOLLOWING PAGE

XRSYM

XRSYM

EXPANDED RELATIVE SYMBOL (Continued)

FIELD NO.	NAME	USE	EXPLANATION (ALLOWED FORMATS)
2	Range	M	Enter the range in nautical miles (NM), kilometers (KM), meters (M), kiloyards (KY), yards (YD), or feet (FT), of the symbol location from the track specified in the ORGIN set. Use up to six characters with optional floating decimal point (.00001-999999), followed by the appropriate unit of measure abbreviation, and optional checksum (0-9), e.g., 12.5NM, .045YD, 345KM2. (2-9ANS)
3	Symbol	M	Enter the basic symbol code from Table 5-8 (Basic Symbol Codes), e.g, 006, 120. (3N)
4	Modifier	O	Enter the symbol modifier code from Table 5-10 (Symbol Modifier Codes), e.g., 02, 08. (2N)
5	Orientation	O	Enter the bearing of the symbol orientation (000-360 or 000.0-360.0) in degrees true (T) or relative (R). An optional checksum (0-9) may be used, e.g., 035T, 035R8, 035.5T, 035.5T3. A relative bearing indicates that the overlay is slaved to the track's current heading, causing the overlay to reorient relative to the origin with any heading change. The default value is 000T. (4-7ANS)
6	Label	O	Enter the free-text label that is to be displayed by receiving TDPs. Slants (/) are not allowed, e.g., INBOUND POINT, SKUNK BRAVO. (1-21ANBS)
7	Symbol Size	O	Enter the character/symbol size from Table 5-9 (Character and Symbol Size Codes), e.g., 5, 10, 50. If character/symbol size is not provided, default value 5 (5 vertical pixels) will be assumed. (1-2N)

NOTE: THIS SET CONTINUED ON THE FOLLOWING PAGE

XRSYM

XRSYM

EXPANDED RELATIVE SYMBOL (Continued)

FIELD NO.	NAME	USE	EXPLANATION (ALLOWED FORMATS)
8	Line Type	O	Enter the type of line from Table 5-5 (Line Types), e.g., 1, 3. If line type is not provided, default value 0 (solid line) will be assumed. (1N)
9	Line Color	O	Enter the line color from Table 5-6 (Color Codes), e.g., B, C. If line color is not provided, default value A (white) will be assumed. (1A)

Set Examples:

```
XRSYM/265T/225NM/029///TYPHOON MONA

XRSYM/101T/15KY/060/04/100T/PT XRAY/5/1
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XRSYM

XSYMB

EXPANDED SYMBOL

	1		2		3		4
XSYMB	/	**4-24ANS (7-27ANS)**	/	**3N**	/	2N	/	4-7ANS
		SYMBOL LOCATION		**SYMBOL**		**MODIFIER**		**ORIENTATION**

	5		6		7		8
/	1-21ANBS	/	1-2N	/	1-N	/	1A
	LABEL		**SYMBOL SIZE**		**LINE TYPE**		**LINE COLOR**

NOTE: SHADED FIELDS ARE MANDATORY

The XSYMB set is used to place a symbol at a fixed geographic position. These symbols are defined in Table 5-8. The XSYMB set allows reporting of data with enhanced precision and flexibility in units of measure.

FIELD NO.	NAME	USE	EXPLANATION (ALLOWED FORMATS)
1	Symbol Location	M	Enter the symbol location in its original format and precision if possible. Use one of the alternate field contents provided below. Enter the designated field descriptor followed by the data. Data can be expressed in:

Coordinate System	Field Descriptor
Latitude/Longitude	LL:
UTM (Universal Transverse Mercator)	UT:

NOTE: THIS SET CONTINUED ON THE FOLLOWING PAGE

XSYMB

EXPANDED SYMBOL (Continued)

FIELD NO.	NAME	USE	EXPLANATION (ALLOWED FORMATS)
1	Symbol Location (continued)	M	Coordinate System — Field Descriptor GEOREF (World Geographic Reference System) — GR: The precision reported in this field should reflect the original known precision. The only boundary or restriction placed on the reported precision of data in this field is the field length range. An optional floating decimal point is allowed as appropriate. See Table 5-21 (Position Reporting) for more information on data format, e.g., LL:304055.55N7-1304055.55E8, UT:45FDK0474, GR:DIQA. (4-24ANS, 7-27ANS including field descriptor)
2	Symbol	M	Enter the basic symbol code from Table 5-8 (Basic Symbol Codes), e.g, 060. (3N)
3	Modifier	O	Enter the symbol modifier code from Table 5-10 (Symbol Modifier Codes), e.g., 04. (2N)
4	Orientation	O	Enter the true bearing of the symbol orientation (000-360 or 000.0-360.0) followed by "T" (true) and an optional checksum (0-9), e.g., 005T, 135.5T4. The default value is 000T. (4-7ANS)
5	Label	O	Enter the free-text label that is to be displayed by receiving TDPs. Slants (/) are not allowed, e.g., MARSHALL, PT ALFA. (1-21 ANBS)

NOTE: THIS SET CONTINUED ON THE FOLLOWING PAGE

EXPANDED SYMBOL (Continued)

FIELD NO.	NAME	USE	EXPLANATION (ALLOWED FORMATS)
6	Symbol Size	O	Enter the character/symbol size from Table 5-9 (Character and Symbol Size Codes), e.g., 5, 10, 50. If character/symbol size is not provided, default value 5 (5 vertical pixels) will be assumed. (1-2N)
7	Line Type	O	Enter the type of line from Table 5-5 (Line Types), e.g., 1, 3. If line type is not provided, default value 0 (solid line) will be assumed. (1N)
8	Line Color	O	Enter the line color from Table 5-6 (Color Codes), e.g., A, C. If line color is not provided, default value A (white) will be assumed. (1A)

Set Example:

```
XSYMB/UT:18SUU83630143/030/04/090T/12TH MOTORIZED BATT/10/0/B
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